

## CLAIMS

1 1. A system for protection of a composite structure having a substrate and a barrier applied  
2 thereto during fabrication, including the steps of: introducing a fire resisting agent to the barrier;  
3 and attaching the barrier to the substrate before completing fabrication of the composite structure.

1 2. The system as defined in claim 1, wherein said step of introducing the fire resisting agent  
2 comprises: in-situ infusion of the agent into the barrier during said fabrication of the composite  
3 structure.

1 3. The system as defined in claim 2, further including the step of: applying a waterproofing  
2 cover skin to the barrier with the fire resisting agent infused therein before said attaching thereof  
3 to the substrate.

1 4. The system as defined in claim 3, wherein said attaching of the barrier is performed by  
2 bonding thereof to the substrate.

1 5. The system as defined in claim 4, wherein the barrier is an intumescent mat and the fire  
2 resisting agent is a phenolic resin.

1 6. The system as defined in claim 3, wherein the waterproofing cover skin is aluminum foil  
2 and said bonding involves application of a silicone adhesive between the barrier and the substrate.

1 7. The system as defined in claim 4, wherein the barrier is felt and the fire resisting agent is  
2 an intumescent coating.

1 8. The system as defined in claim 4, wherein the waterproofing cover skin is aluminum foil  
2 and said bonding involves application of a silicone adhesive between the barrier and the substrate.

1 9. The system as defined in claim 1, wherein the barrier is an intumescent mat and the fire  
2 resisting agent is a phenolic resin.

1 10. The system as defined in claim 1, further including the step of: applying a waterproofing  
2 cover skin to the barrier with the fire resisting agent infused therein before said attaching thereof  
3 to the substrate.

1 11. The system as defined in claim 8, wherein the waterproofing cover skin is aluminum foil  
2 and said bonding involves application of a silicone adhesive between the barrier and the substrate.

1 12. The system as defined in claim 1, wherein said attaching of the barrier is performed by  
2 bonding thereof to the substrate by application of an adhesive between the barrier and the  
3 substrate.

1 13. The system as defined in claim 1, wherein said attaching of the barrier is effected in  
2 response to said introducing of the fire resisting agent by infusion into the barrier during  
3 formation of the substrate.

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14. The system as defined in claim 13, wherein said substrate is formed as a solid layer underlying the barrier attached thereto.

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